

ABSTRACT OF THE DISCLOSURE

A solid-state image pickup device includes, in a substrate, a plurality of photoelectric conversion regions for subjecting incoming light to photoelectric conversion, a reading gate for reading a signal charge from the photoelectric conversion regions, and a transfer register (vertical register) for transferring the signal charge read by the reading gate. Therein, a groove is formed on the surface side of the substrate, and the transfer register and the reading gate are formed at the bottom part of the groove. With such a structure, in the solid-state image pickup device, reduction can be achieved for the smear characteristics, a reading voltage, noise, and others.